ACCESSION NR: AP4040951 S/0020/64/156/005/1121/1123 (Corresponding member AN SSSR)
AUTHOR: Razuvayev, G. A., Latyayeva, V. N.; Vy*shinskaya, L. I.; Vy*shinskiy, N. N. TITLE: New monocyclopentadienyl derivatives of titanium SOURCE: AN SSSR. Doklady*, v. 156, no. 5, 1964, 1121-1123 TOPIC TACS: titanium, titanium derivative, monocyclopentadienyl derivative, Ti monocyclopentadienyl derivative, phenol, cyclopentadienyl timethyltitane, dipenyl mercury, phenyl mercury chloride, organotitanium compound ABSTRACT: The authors analyzed reactions wherein the Cl atoms in monocyclopentadienyl titanium trichloride were replaced with phenyl groups. G. A. Razuvayev it C1 (DAN, 150 (1963) 566) Previously showed that, during the reaction of titanium tetrachloride, all four Cl atoms are replaced by phenyl radicals. The authors therefore initially analyzed the exchange reaction of diphenyl mercury with 05 H5 Ti Cl3 at a 3 to 1 ratio in a benzene solution at room temperature. The following new compounds were identified: $C_6H_6TICl_9 + 3 (C_6H_6)_9Hg \rightarrow 3C_6H_5HgCl + [C_6H_6Ti (C_6H_6)_3].$ CoHoTICIs + 3CoHoLI → CoHoTI (CoHo) + 3LICI. CoHoTI (CoHo) + 3HgCla - 3CoHoHgCl + CoHoTICla. Card . 1/2

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ACCESSION NR: AP4040	951	•		-
Authors conclude that ring in the examined chas: 11 Formulas. ASSCCIATION: Nauchnogosudarstvennom univer	AH ₈ Ti (C ₄ H ₈) ₃ + u ₃₀ ·C ₅ H ₇ OH → 3C ₆ H ₆ C ₅ H ₆ Ti (0·u ₃₀ ·C ₅ H ₇) ₃ + 3HCi → C ₆ H ₃ SH ₆ Ti (C ₆ H ₈) ₃ → C ₅ H ₆ TiC ₆ H ₅ + C ₆ H ₅ TiC ₆ H ₅ + H ₆ Cl ₁ → C ₆ H ₆ H ₇ C ₆ H ₅ TiC ₆ H ₅ + H ₆ Cl ₁ → C ₆ H ₆ H ₆ [C ₆ H ₅ TiC] + 2H ₆ Cl ₂ → C ₆ the bonding of the tital compounds is very similar cissledovatel skiy institution N. I. Lobache y of Gorki State Univers	TiCl ₃ + 3 uso C ₃ H ₇ OH. C ₃ H ₆ + ½ C ₅ H ₆ - C ₆ H ₅ . + [C ₆ H ₄]. C ₁ Cl + [C ₄ H ₅ TiCl], SH ₃ TiCl ₃ + Hg ₃ Cl ₂ . nium atom with the correction of the form of the correction	l. Orig. art.	
SUBMITTED: 17Feb64		•	ENGL: 00	:
			TWILL OU	
SUB CODE: IC	NO REF SOV:	003	OTHER: 002	
SUB CODE: IC	NO REF SOV:	003	OTHER: 002	
SUB CODE: IC	NO REF SOV:	003	OTHER: 002	

ALEKSAMBECV, Yu.A.; DEUZEKOV, C.M.; ZEIL'TSOV, S.F.; RAMMVAYEV, G.A.

Certain resultanities in the Hiquid phase oxidation of Hisopropylmarcury by oxygen. Bokt. AM SSSR 157 no.6:1395-1398 Ag 'c.Z.

(MERA 17:9)

1. Chlen-kurroopensent AM SSSR (for Razuvayev).

RAZUVAYEV, G.A.; MINSKER, K.S.; SANGALOV. Yu.A.

TALLES EN LA SELECTION DE LA CONTRACTION DEL CONTRACTION DE LA CON

Initiation of vinyl chloride polymerization by the reactions between triethylaluminum with halogen-containing organic compounds. Dokl. AN SSSR 158 no.1:170-172 S-0 '64 (MIRA 17:8)

1. Chlen-korrespondent AN SSSR (for Razuvayev).

EWT(m)/EPF(c)/EWP(j) L 19603-65 Pc-4/Pr-4 AFWL/SSD/ASD(a)-5/ESD(gs) ACCESSION NR: AP5003147 5/0020/64/158/002/0382/0384 AUTHOR: Vyazankin, N. S.; Razuvayev, G. A. (Corresponding member AN SSSR); Bychkov, V. T. Bis-(triethylgermyl)-cadmium. Synthesis and properties SOURCE: AN SSSR. Doklady, v. 158, no. 2, 1964, 382-384 TOPIC TAGS: organic synthetic process, cadmium compound, germanium compound, mercury compound, cadmium, germanium, mercury, organosilicon compound Abstract: In view of recently developed methods of producing bi- and polymetalloorganic compounds by reaction of diethylmercury with organogermanium and organosilicon hydrides, the authors attempted to expand the synthetic potentialities of this reaction by replacing diethylmercury with its structural analogs. Triethylgermanium reacted with diethylcadmium under mild conditions, forming bis-(triethylgermyl)-cadmium and ethane in yields of 78.6 and 90.3%, respectively. Bis-(triethylgermyl)-cadmium is a lemonyellow nonvolatile liquid, which cannot be islated in the pure state. When heated in an evacuated ampoule to 125-130°, it decomposed, forming metallic cadmium and hexaethyldigermane in high yields. Bis-(triethylgermyl) -cadmium is oxidized vigorously by atmospheric oxygen, yielding bis-triethyl-Card 1/2

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L 19603-65

ACCESSION NR: AP5003147

germanium oxide and cadmium. The reactions of bis-(triethylgermyl)-cadmium and its mercury analog with benzoyl peroxide differ appreciably, the former reacting with two moles of the peroxide to form benzoyoxytriethylgermane and cadmium dibenzoate. The latter, reacting with an equimolar amount of the peroxide, results in the isolation of mercury in pure form. The greater ease of the reactions of the cadmium compound in comparison with its mercury analog was demonstrated for reactions with alkyl bromides and hydrolysis by water. Bis-(diethylgermyl)-cadmium undergoes an exothermal reaction with 1,2-dibromoethane, yielding cadmium bromide, ethylene, and triethylbromogermane. Orig. art. has 5 formulas.

ASSOCIATION: none

SUBMITTED: 14May64

ENCL: 00

SUB CODE: OC, GC

NO REF SOV: 003

OTHER: 002

J PRS

Card 2/2

VYAZANKIN, N.S.; RAZUVAYEV, G.A.; KORNEVA, S.P.; KRUGIAYA, G.A.; GALIULINA, R.F.

Reaction of triethyl tin hydride and its analogs with diethylzinc. Dokl. AN SSSR 158 no.4:884-887 0 164 .

(MIRA 17:11)

1. Laboratoriya stabilizatsii polimerov AN SSSR, Gor¹kiy. 2. Chlen-korrespondent AN SSSR (for Razuvayev).

L 18221-65 ENT(m)/EPF(c)/ENP(j)/T Pc-4/Pr-4 ASD(m)-3/AFETR/SSD/AFWL RM

ACCESSION NR: AP4049140 S/0020/64/159/001/0158/0159

AUTHORS: Razuvayev, G. A. (Corresponding member AN SSSR); Minsker, K. S.; Sangalov, Yu. A.

TITLE: Low-temperature polymerization of vinylchloride, initiated by the reaction of aluminumalkyls with halogens

SOURCE: AN SSSR. Doklady*, v. 159, no. 1, 1964, 158-159

TOPIC TAGS: polymerization, low temperature research, vinylchloride, polyvinyl-chloride, aluminumalkyl compound

ABSTRACT: It was the purpose of this experiment to polymerize vinylchloride at low temperatures (initiating this process with $(c_2H_5)_3A1-cl_2$). Experimental results showed that the polymerization of vinylchloride was related to the reaction of chloride or bromide with aluminumalkyl. It was observed that upon constant addition of chlorine gas (at the rate of 25-30 ml/min) to the reaction solution (1.5 moles of triethylaluminum in 100 g of vinylchloride) polyvinylchloride was obtained in a wide range of temperatures (-15 to -700), as shown in Fig. 1 on the Enclosure. A vital factor in the polymerization process was the rate of introduction of the chlorine factor in the reaction zone. Increasing the concentration of vinylchloride from 1.6 to

L 18221-65

ACCESSION NR: AP4049140

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OTHER: 002

3.2 moles (for every 0.024 moles $({}^{\text{C}}_{2}{}^{\text{H}}_{5})_{3}^{\text{Al}}$) increased the conversion by 2.5 times in the same polymerization time. Polymerization was initiated only when the chlorine reacted with the aluminum-organic-compound containing at least one alkyl group. The nature of the alkyl group in the aluminumalkyl compound determined this compound's activity in the polymerization. The largest yields of polyvinylchloride were obtained with $(iso-{}^{\text{C}}_{4}{}^{\text{H}}_{9})_{3}^{\text{Al}}$ and $({}^{\text{C}}_{2}{}^{\text{H}}_{5})_{3}^{\text{Al}}$. When the chlorine was replaced by bromine in the presence of $({}^{\text{C}}_{2}{}^{\text{H}}_{5})_{3}^{\text{Al}}$, there was a conversion drop from 15 to 25%. Iodine gave no reaction. It was shown that by using the reaction of halogens with aluminumalkyl compounds it was possible to polymerize other vinyl monomers such as vinylacetate at low temperatures. Orig. art. has: 1 table and 2 figures.

ASSOCIATION: none

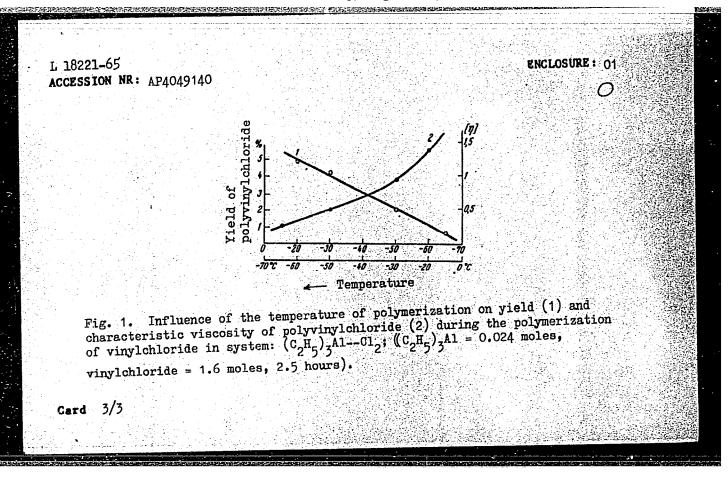
SUBMITTED: 08Jun64

SUB CODE: OC , TD

ENCL: 01

NO REF SOV: 002

Card 2/3



L 24832-65 EWT(m)/EPF(c)/EPR/EWP(j) Pc-4/Pr-4/Ps-4 RM	
ACCESSION NR: AP4049488 5/0020/64/159/002/0383/0384 38	
AUTHOR: Razuvayev, G.A., (Corresponding member AN SSSR), Latyayeva, V.N., Vy*shinskaya, L.T.	
TITLE: Decomposition of biscyclopen adienylderivatives of titanium in solvents	
SOURCE: AN SSSR. Doklady*, v. 159, no. 2, 1964, 383-384	
TOPIC TAGS: biscyclopentadienyl titanium, organotitanium compound, electron paramag- netic resonance, alkyltitanium solvation	
ABSTRACT: The purpose of the work was to determine if there is any difference in the thermal decomposition of biscyclopenta-dienyldiethyl titanium in n-hexane and tetrahydrofuran. Studies of EPR spectra indicated that decomposition takes place by successive rup-	
ture of radicals with formation of intermediate compounds of trivalent Ti, which further decompose to compounds of divalent Ti that give no EPR signal. Both solvents behave identically. Thus, it can be assumed that the process takes place in accordance with	

ACCESSION NR: AP4049488			1, \$
The nature of the radical does no			
ASSOCIATION: Nauchno-issledd			611-
Gor'kly State University) SUBMITTED: 02Jul64	ENCL: 00	SUB CODE: OC	
NO REF SOV: 002	OTHER: 002		

THE THOU IN THE HABILOUTCH, I.B.; RAZUVAYEV. 3.7.

Thermochemistry of tetraethyladinen and revustryldisificon.
Forl. Al SSSR 155 no.5s1106-1108 D 161 (MIRA 18-7)

1. Institut khimiñ pri Gorlaevskom gosadarsivennem universitete im. I.i. kepakhevskogo. 2. Chlen-kermespenient AN MSR (for Razuvayev).

GOL'DANSKIY, V.I.; KITAYGORODSKIY, I.I., prof.; KOST, A.N., prof.; LEVICH, V.G.; ORMONT, B.F., prof.; RAZUVAYEV, G.A.; TAL'ROZE, V.L., prof.; CHERNOV, A.G.; IVANOV, S.M., red.

[Chemistry on new frontiers] Khimiia na novykh rubezhakh. Moskva, Izd. vo "Znanie," 1965. 46 p. (Novoe v zhizni. nauke, tekhnike. XI Serita: Khimiia, no.2) (MIRA 18:4)

i. Chlem-korrespondent AN SSSR (for Gol'danskiy, Levich, Razuvayev).

RAZUVAYEV, G.A.; TERMAN, L.M.; YANOVSKIY, D.M.

Radical reactions of peroxycarbonates. Part is Thermal decomposition of diphenylperoxydicarbonate in inert solvents. Zhur.org.khim. i (MIRA 18:4) no.28274-280 F 165.

UR/0062/65/000/006/1009/1110 Pc-4/Pr-4 RM EWT(m)/EPF(c)/EWP(j) ACCESSION NR: AP5017965 541.6+538.113 AUTHOR: Dodonov, V. A.; Petukhov, G. G.; Razuvayev, G. A. TITLE: Dehydrochlorination of polyvinyl chloride and some of the chemical properties of the polyene obtained SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 6, 1965, 1109-1110 TOPIC TAGS: polyvinyl chloride, polyene, electron spin resonance, dehydrochlori-ABSTRACT: In order to elucidate the part played by certain properties of the polyene formed, a complete detachment of hydrogen chloride from polyvinyl chloride nation (PVC) was carried out in the presence of glycol monomethyl ether alcoholate at 50-60C. The PVC used was precipitated twice and had a molecular weight of 30,000. The polyene formed gave a strong ESR signal with a g factor (2) almost equal to that of diphenylpicrylhydrazine. The concentration of paramagnetic particles was 1017 per gram of polyene. The signal width and lack of hyperfine structure indicated a considerable delocalization of the unpaired electrons. The amplitude of the signal changed markedly under the influence of atmospheric oxygen because

f a decrease in the average deg he polyene oxidized irreversible atalytic effect on the chlorina he chlorination products containation	tion of certain nymers, and high	ner chlor-substituted
nydrocarbons. ASSOCIATION: Nauchno-issledovat nogo universiteta (Scientific Re University)	el'skiy institut khimi search Institute of Ch ENCL: 00	emistry, Gor'kly State SUB CODE: OC, NP
SUBMITTED: 020ct64 NO REF SOV: 003	OTHER: 004	

RAZUVAYEV, G.A.; VASILEYSKAYA, N.S.

Photoreaction of mercuric chloride with chloroform in the presence of pyridine. Izv. AN SSSR. Ser. khim. no.7:1285-1286 '65. (MIRA 18:7)

l. Laboratoriya stabilizatsii polimerov AN SSSR, Gor'kiy.

RAZUVAYEV, G.A.; KAPLIN, Yu.A.; MITROFANOVA, Ye.V.

Reactions of phenyl compounds of III group elements with benzene. Izv. AN SSSR. Ser. khim. no.8:1489-1491 '65. (MIRA 18:9)

1. Nauchno-issledovatel'skiy institut khimii Gor'kovskogo gosudarstvennogo universiteta im. N.I. Lobachevskogo.

VYAZANKIN, N.S.; RAZUVAYEV, G.A.; BYCHKOV, V.T.

New reactions of bis(triethylgermyl)cadmium. Izv. AN SSSR. Ser. khim. no.9:1665-667 '65. (MIRA 18:9)

1. Laboratoriya stabilizatsii polimerov AN SSSR, Gor'kiy.

	EPF(c)/EWP(j)/T	i i			
ACCESSION NR: AP50	22008		UR/0286/65/00		/0078
	lul & C	4455	678.74 : 66.0 کاکیلیا	36	3 455
AUTHOR: Razuvayev.	G. A.; Shevlyakov	y, A. S.; Yano	vskiy, D. H.; K	ofman, L. l	P. 6
Stupen', L. V.; Pav	lov, S. M.				
TITLE: A method fo	r polymerizing vin	nyl compounds.	Class 39, No.	172994 15	
SOURCE: Byulleten':	zobreteniy i tova	rnykh snakov,	no. 14, 1965, 7	78	
TOPIC TAGS: emulsi	on polymerization,	vinyl plasti	polymerizati	on initiate	or,
			مساديل ممرا		120
polymer			15,44,55		
polymer ABSTRACT: This Aut			ethod for poly		
polymer ABSTRACT: This Aut compounds. Polymer	ization time is re	duced and poly	method for polymer yield is i	ncreased by	using
polymer ABSTRACT: This Aut	ization time is re	duced and poly	method for polymer yield is i	ncreased by	using
ABSTRACT: This Aut compounds. Polymer alkyl or aryl ester polymerization.	ization time is re	duced and poly	method for polymer yield is i	ncreased by	using
polymer ABSTRACT: This Aut compounds. Polymer alkyl or aryl ester	ization time is re	duced and poly	method for polymer yield is i	ncreased by ck or emula	using ion
ABSTRACT: This Aut compounds. Polymer alkyl or aryl ester polymerization.	ization time is re	duced and poly	method for polymer yield is i	ncreased by	using ion
polymer ABSTRACT: This Aut compounds. Polymer alkyl or aryl ester polymerization. ASSOCIATION: none	ization time is re	duced and poly cid as the in	method for polymer yield is i	ncreased by ck or emula	using ion

Reducal reactions of organic perception by the Jeve, East 3: Interaction of dicyclohexylperoxydicarbonate with disastry and line. Zhur. org. khim, i no.1:79-82 Ja 165.

(MIRA 18:5)

RAZUVAYEV, G.A.; MINSKER, K.S.; CHEPNOVSKAYA, R.P.; BURLAKOVA, G.I.

Modification of the Ziegler-Natta catalysts in the polymerization of olefins. Vysokom.soed. 7 nc.1:39-44 Ja '65.

(MIRA 18:5)

RACIVATIO, d.A.: Sangalov, Yu.A.; Millsker, K.S.; KOVALEVA, N.V.

Prigner: action of vinyl chloride in the presence of the system alkylaluminum - alkyl halide. Vysokom. sped. 7 no.3:539-545 (MIRA 18:7)

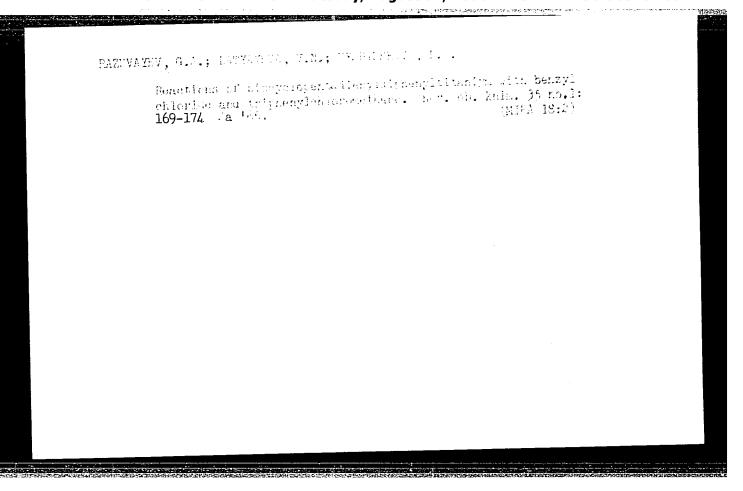
Nr 165:

. Institut kniprorganichenkikh produktor i akrilatov.

RAZUVAYEV, G.A.; LATYAYEVA, V.N.

Covalent organometallic compounds formed by transition metals.
Usp.khim. 34 no.4:585-617 Ap 165. (MIRA 18:8)

1. Institut khimii pri Gor'kovskom gosudarstvennom universitete.



Thermal decomposition of organomerousy conjugate in activity containing solvents. Fart 1: Becomposition of illustrative containing solvents. Fart 1: Becomposition of illustrative in benzene. Zhur. ob. kdin. 35 no.1:172-177 to 1:5.

(Additional Containing Containin

EWT(m)/EPF(c)/EWP(j)/EWA(c) Pc-4/Pr-4 RM s/0079/65/035/002/0394/0394 AP5005555 ACCESSION NR: AUTHOR: Kruglaya, O. A.; Vyazankin, N. S.; Razuvayev, G. A. TITLE: Bimetalloorganic compounds with Ge-Bi bonds SOURCE: Zhurnal obshchey khimii, v. 35, no. 2, 1965, 394 TOPIC TAGS: heteroorganic compound, bimetalloorganic compound, organogermanium compound, organobismuth compound ABSTRACT: Organic compounds with germanium-bismuth bonds were prepared by reacting triethylgerman and triethylbismuth, the reaction $n(C_2H_5)_3GeH + (C_2H_5)_3Bi \rightarrow nC_2H_6 + ((C_2H_5)_3Ge)_nBi(C_2H_5)_3-n$ proceeding in the absence of air. At n=3 and 140-145C a yield of 61.6% tris(triethylgermyl)bismuth (I) was obtained in 8 hrs, and at 130-135C 86.3% of ethyl (bis (triethylgermyl) bismuth was formed even with an excess of triethylgerman. Equimolar amounts of the reagents at 145-150C yielded 8.5% of diethyl(triethylgermyl) bismuth, but mainly (I) was formed under these conditions. The new compounds can be distilled in a nitrogen atmosphere and are stable up to 200C. (I) decomposes at 270C to give bismuth and hexaethylgerman, and reacts with triethylstannan at Card 1/2

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ACCESSION NR: AP5005555

2

170C to give bismuth, hexaethyldistannan and triethylgerman. Bismuth and triethylbenzoylhydroxygerman were formed from (I) with benzoyl peroxide in ethyl ether, and bismuth, triethylgerman and triethylacetylhydroxygerman were formed in glacial acetic acid. The latter reacts similarly with bis(triethylgermyl)mercury. The results represent part of a research series on bimetalloorganic compounds. The physical properties of the new compounds are described. Orig. art. has: 3 formulas.

ASSOCIATION: Laboratoriya stabilizatsii polimerov Akademii nauk SSSR, Gorkiy (Polymer stabilization laboratory, Academy of sciences, SSSR)

SUBMITTED: 08Aug64

ENGL: 00

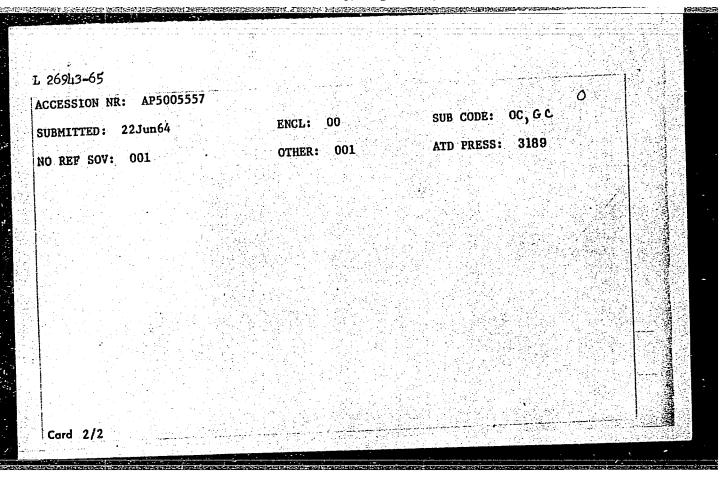
SUB CODE: OC

NO REF SOV: 002

OTHER: 000

Card 2/2

IJP(c) RM/JD EWT(m)/EPF(c)/EWP(j)/EWP(t)/EWP(b) Pc-L/Pr-L 8/0079/65/035/002/0395/0396 ACCESSION NR: AP5005557 AUTHOR: Vyazankin, N. S.; Razuvayev, G. A.; Bychkov, V. T. TITLE: Bis-(triethylsily1)cadmium v. 35, no. 2, 1965, 395-396 SOURCE: Zhurnal obshchey khimii, TOPIC TAGS: organometallic compound, bis (triethylsilyl)cadmium, chemical property, organoelemental compound ABSTRACT: An organometallic compound with Si-Cd bond, bis-(triethylsilyl)cadmium(I), has been prepared by reacting triethylsilane with diethylcadmium/at 110C in evacuated and sealed ampuls. The compound is a yellow liquid readily oxidized in air. Its structure was confirmed by analyzing the products of the reactions of I with bromine in CCL, I with benzoylperoxide in benzene, and decomposition at 140C. The reactions of I and its analog bis-(triethylgermyl) cadmium with ethyl bromide gave different products. Orig. art. has: 2 formulas. [JK] ASSOCIATION: Laboratoriya stabilizatsii polimerov Akademii nauk SSSR, Gor'kiy (Laboratory of Polymer Stabilization, Academy of Sciences, SSSR) Card 1/2



ETLIS, V.S.; TROFIMOV, N.N.; RABUVAYEV, G.A.

(hlorination of some alkene sulfides. Zhur. ob. khim. 35

(MTRA 18:4)

no.3x475-479 Mr 165.

RAZUVAYET, N.A., PYLITHROT, G.G.; TITOV, V.A., PREMIEOV, C.N.

Reaction of triphe ylbismuth with benzene. Zhur. cb. khim.

(MIRA 18:4)

35 no.3:481-484 Mr '65.

PANKRATOVA, V.N., IATYAYFVA, V.N., RAZUVAYEV, G.A.

Cxidation of diphenylcadmium in organic solvents. Zhur. ob.
khim. 35 no.5:900-903 My '65. (MIRA 18:6)

RAZUVAYEV, G.A.

Joint work of spientists and engineers. Vest.AN SSSR 35 no.6163-65
Js 165.

1. Oblen-korrespondent AN SSSR.

RAZUVAYFV, G.A.; STEPOVIK. L.P.; MITROFANOVA, Ye.V.

Resettions of aluminum tritsopropylate with peroxides and Resortions of aluminum tritsopropy. 1008 Je '65. anhydrides. Zhur. ob. khim. 35 no.6:1095...1098 Je '65. (MIRA 18:6)

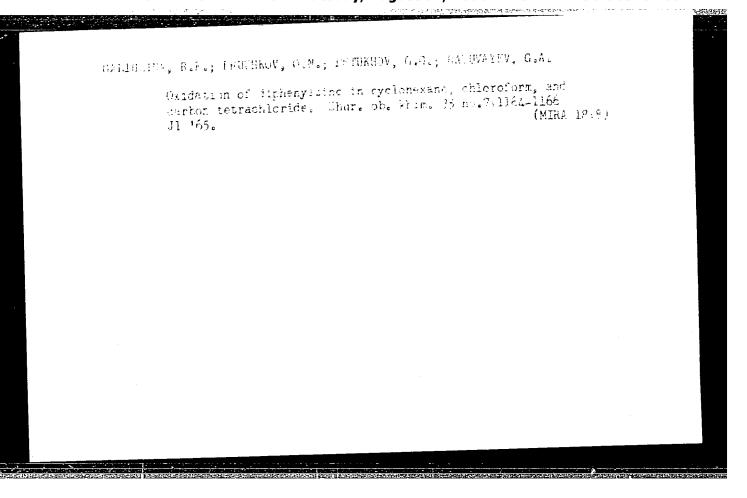
1. Nauchno-issledovateliskiy institut khimii pri Gorikovskom gosudarstvennom universitete imeni Lobachevskogo.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014445

RAZUVAYEV, G.A.; ZHIL'TSOV, S.F.; ALEKSANDROV, Yu.A.; ERUZHKOV, O.N.

Preparation and certain properties of isopropyl mercury
isopropylate. Zhur. ob. khim. 35 no.7:1152-1156 J1 '65.

(MIRA 13:8)



Michaeles and mechanism of the liquid-phase exidation of disapproprimeroury. Zhur. ob. khim. 35 no.8:1440-1447

Ag 196.

FATRAYEVA V.M.: BANGULYEV Q.A.; KILYAKOVA. G.A.

D phonyltt tenium complexes with tetrunydrofuren end azmonie.
Thur. ob. knim. Ob no.8:1498-1499 Ag '65. (MTRA 18:8)

E. Nauchno-Essledovatel'skiy institut khimii pri Dorikovskom mos plarsivenoru universitet.

RAZUVAYIN, G.A.; DTEPOVIR, L.P.

Reactions of organoaluminum compounds with accl perexides and anhydrides. Zhur. ob. khim. 35 no.9:1672-1676 S '65.

(NIBA 18:10)

1. Nauchno-issledovatel'skiy institut khimii pra Gor'kovakom gosudarstvennom universitete imeni N.I. Lobachevskogo.

RAZZITATEV, G.A.; SAMPALOV, Yu.A.; MENCARR, R.C.; ROMAG, L.M.; MARCYSKAYA, N.S.

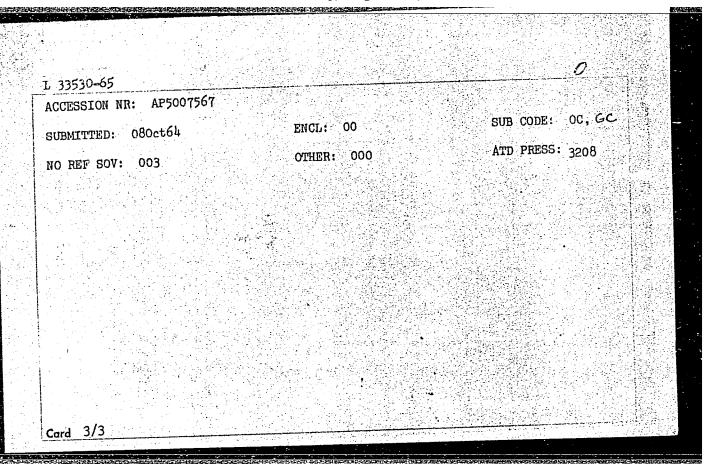
Initiation of vinyl chloride polymerization by reactions between lower unseturated chlorocarbons and triethylaluminum. Dokl. AN SSSR 160 no.1:143-144 Ja 165.

1. Moskovskiy gosudarstvennyy universitat. 2. Chlen-korrespordent AN SSSR (for Razuvayev).

EWT(m)/E)F(c)/EPR/EWP(j)/T Pc-h/Pr-h/Ps-h 8/0020/65/160/005/1093/1096 ACCESSION NR: AP5007567 AUTHOR: Razuvayev, G. A. (Corresponding member AN SSSR); Minsker, K. S.; Grayevskiy, A. I.; Chernovskaya, R. P. TITLE: Copolymerization of vinyl chloride with olefins on Ziegler systems AN SSSR. Doklady, v. 160, no. 5, 1965, 1093-1096 SOURCE: TOPIC TAGS: polyvinylchloride, poly(vinyl chloride), polyolefin, Ziegler catalyst, alkylaluminum, titanium tetrachloride, copolymerization, vinyl chloride olefin copolymerization, ethylene, propylene ABSTRACT: Copolymerization of vinyl chloride and ethylene or propylene was attempted on catalytic mixtures of the Ziegler catalyst type. Previous studies by some of the authors had indicated that vinyl chloride does not polymerize to solid polymers in the presence of mixtures of trialkylaluminum or dialkylaluminum halide with titenium tetrachloride, and that alkoxy derivatives of alkylated aluminum were catalytically active. Therefore, copolymerization of vinyl chloride with ethylene or propylene was conducted in the presence of a catalytic system consisting of diethylaluminum ethoxide and titanium tetrachloride or diethylaluminum ethoxide, ethyl(ethoxy)bromoaluminum, and titanium tetrachloride. The

L 33530-65 ACCESSION NR: AP5007567 copolymerization was conducted at 60C and 10 atm. The polymers obtained contained \$\frac{12}{2}-53\%\$ chlorine. The yields depended on the catalyst concentration in the reacting mixture. Di-isobutylaluminum isobutoxide was also catalytically active, reacting mixture. Di-isobutylaluminum isobutoxide was also catalytically active, the seaso of ethylene or a slightly granulated powder (in the case of poly-(in the case of ethylene) or a slightly granulated powder (in the case of poly-(in the case of ethylene). The chlorine content affected the physical, physicochemical, and therethylene). The chlorine content affected the physical, physicochemical, and theremomechanical properties of the copolymers. As compared with homopolymers, the copolymers had a higher solubility in organic solvents; the glass transition temperature of copolymers was higher than that of the poly(vinyl chloride), but lower perature of copolymers was higher than that of the polyclefins. The flow point, according to the thermomechanical than that of the polyclefins. The flow point, according to the thermomechanical than that of the polyclefins. The flow point, according to the thermomechanical than that of the polyclefins. The flow point, according to the thermomechanical for the ethylene copolymer. Thermal stability of the copolymers changed within an interval of 3 to 40 minutes with a change in the chlorine content from 50 to 1%. The temperature of decomposition changed in the same manner. Orig. art. has: [BN] ASSOCIATION: Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy institut khlor-decomposition approach active activities.	
ASSOCIATION: Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy institut knior- organicheskikh produktov i akrilatov (State All-Union Scientific Research Institute of Chloroorganic Products and Acrylates)	
Card 2/3	

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444



Mature of radicule in the initiation of pulperization of transport perceptual and the second of the

RIMOVEW, G.A., DREMEW, G.R., METTON, S.P., PETUKER, G.G.

Frotope and miss spectrometric method of studying the reaction of diptemylmercury with alcohols. Dokl. AN SSR 163 no.1:119-122 Jl '65.

(MIRA 18:7)

1 Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom gosudarstwennom universitet im. N.I.I.chachevskogo. 2. Chlen-korrespondent AN J.R. (for Razivayev).

tings and the transfer of the second of the

RANGYATLE, C.A., TO DE C.S., INTERNIVA, V.H., SANGATOV, YU.A.

Letter that it of which chloride initiated by the reaction of carbon between the initiation of carb

1. Nauciona traffic e askaltelig institut khimit pri Gortkovskom Gondarstvan en entversitete Jr. N. T. L. bachevskoge. 2. Chlenkorrespondent "N. blik (for Pasuvayev).

VYAZANKIN, N.S.; RAZUVAYEV, G.A.; BREVNOVA, T.N.

Synthesis and properties of tert-butyl ester of \$\beta\$-(trimethylstlyl)-perpropionic acid. Dokl. AN SSSR 163 no.6:1389-1392 Ag '65.

1. Laboratoriya stabilizatsii polimerov AN SSSR, Gor'kiy.
2. Chlen-korrespondent AN SSSR (for Razuvayev).

L 13621-66 EWT(m)/EWP(j)/T/EWA(c) RPL WW/RM	
ACC NR: AP6000976 (A) SOURCE CODE: UR/0286/65/000/022/0057/0058	
AUTHORS: Etlis, V. S.; Sineokov, A. P.; Razuvayev, G. A.	
ORG: none	
TITLE: A method for obtaining sulfur-containing polyurethanes. Class 39, No. 176397 [announced by State Unified Scientific Research Institute of Organochlorine Products and Acrylates (Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy institut	
khlororganicheskikh produktov i akrilatov)/	
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 57-58	
TOPIC TAGS: sulfur, sulfur compound, urethane, catalyst, amine, ethylene compound	
ABSTRACT: This Author Certificate presents a method for obtaining sulfur-containing polyurethanes by the interaction of isocyanates and thioisocyanates with a sulfur-containing compound in the presence of a catalyst (ternary amines). To increase the thermal resistance of the polyurethanes, ethylene sulfide is used as the sulfur-containing compound.	
SUB CODE: 07/ SUBM DATE: OlApr62	
Card 1/1 NUC: 678.664:547.313.2'569.2	

RAZUVAYSV, G.A.; VASILEYSKAYA, N.S., kand.khim.nauk

Synthesis, study and use of organic peroxides; conference in

Lvov. Vest. AN SSSR 35 no.12:108-109 D 165.

(MIRA 19:1)

1. Chlen-korrespondent AN SSSR (for Razuvayev).

ACC NR: AP7012419

SOURCE CODE: UR/0079 66:036/011,2025/2026

AUTHOR: Vyazankin, N. S.; Gladyshev, Ye. N.; Korneva, S. P.; Razuvayev, G. A.

ORG: Laboratory of Polymer Stabilization, AN SSSR, Gor'kiy (Laboritoriya stabilizatsii polimerov AN SSSR)

TITLE: Reaction of triethylsilyl- and triethylgermyllithium with ethylenic hydrocarbons

SOURCE: Zhurnal obshchey khimii, v. 36, no. 11, 1966, 2025-2026

TOPIC TAGS: lithium compound, hydrocarbon resin, silane

SUB CODE: 07

ABSTRACT: A convenient method of synthesizing triethylgermyllithium and triethylsilyllithium by the reaction of lithium with triethylgermylmercury or triethylsilylmercury in tetrahydrofuran or benzene medium was developed. Triethylgermyllithium and triethylsilyllithium are highly reactive, adding readily to unactivated multiple bonds in benzene medium. Reactions were conducted between triethylsilyllithium and ethylene and propylene, yielding tetraethylsilane and triethylpropylsilane, respectively. Triethyl-n-hexylsilane and triethyl-n-hexylgermane were produced by reaction of the lithium salts with hexene-l. (The reaction of the germyl salt required more rigorous conditions.) Triethylsilyllithium and triethylgermyllithium react with

Card 1/2

UDC: 547.245+547.246

0932 1354

ACC NR: AP7012419

styrene exothermally, yielding triethyl(beta-phenethyl) silane and its germanium analog, along with an admixture of telomerization products of styrene containing (C₂H₅)₃Si- or (C₂H₅)₃Ge- residues. Orig. art. has: 2 formulas.

JPRS: 40,427

and the second s	
NR: AP7003667	SOURCE CODE: UR/0079/66/036/008/1491/1498
A Parkin Pacantch	Latyayeva, V. N.; Vyshinskaya, L. I.; Kilyakova, G. A.
bachevskiy (Nauchno-issle	dovatel'skiy institut pri gor'kovskom gosudarstvennom
niversitete) ITLE: Some reactions of P	is-cyclopentadienyltitanium and monocyclopentadienyl-
menyltitanium	himii v. 36, no. 8, 1966, 1491-1498
OPIC TAGS: organotitanium	compound, thermal decomposition, chemical bonding
clopentadienyl compounds	of tetravalent titanium are common for different ty
mposition of (C-H-) TiR2	tetraphenyl- and diphenyltitanium, the thermal de- was studied, where R = CH ₃ , C ₆ H ₅ , and C ₅ H ₅ Ti(C ₆ H ₅) ₃ .
harcemon owns bombared	erivatives and oxidation were also studied, and the with analogous data for tetraphenyltitanium. The nds with tetravalent titanium (C5H5)2TiR2, when
w cyclopentadienyl compou	e of the Ti-R bond, forming titanium compounds of
TERMONOR CONTRACTOR	to tetraphenyltitanium, which breaks down into yl. The pi-C ₅ H ₅ -Ti bond was unaffected. The
Therease a second	to thermal decomposition increased in the series: < (C5H5)2Ti(C6H5)2. CH5Ti(C6H5)3 was synthesized
'6"5'4°* \5'5'5'~\6"5'3	. 15,574
rd 1/2	UDC: 547.1'3:546.821
	0426 (124)

, 1141-64		•
C NR: AP7003667	0	
or the first time, and possessed one pi-bond C5H5-Ti and three sigma-bonds		•
HTi. The products of thermal decomposition: (Chap) T1, 6 116 16, and		
C.H.) Ti were more stable to the action of high temperatures, but were		
rivered readily exidized. The reactions of (GARZ/211, GARZ1105AR, and	1	
y == y a design included Cleavage Of the Digity to tour some		. - :
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The state of the company company to the contract of the contra	•	•
blomide the C.H. Ti and (C.H.) TI groups were unaired body.	. 1	. •
containing final products were TiCl ₄ , C ₅ H ₅ TiCl ₃ , and (C ₅ H ₅) ₂ TiCl ₂ , respectively	1	
the reactions of organotitanium compounds considered illustrate the relatives		
and other reagents in comparison with the sigma-bond Ti-R. [JPRS: 38,970]		
SUB CODE: 07 / SUBM DATE: 06Jul65 / ORIG REF: 007 / OTH REF: 003		·.
		
·		
ard 2/2 jb		1

ACC NR: AP7005110 SOURCE CODE: UR/0079/66/036/009/1702/1705 RAZUVAYEV, G. A., PANKRATOVA, V. N., Scientific Research Institute of Chemistry under the Gor'kiy State University imeni N. I. Lobachevskiy (Nauchnoissledovatol'skiy institut knimii pri Gor'kovskom gosudarstvennom univorsitete) "Photo- and Thermodecomposition of Diphenyl Cadmium in Organic Solvents" Moscow, Zhurnal Obshchey Khimii, Vol 36, No 9, 66, pp 1702-1705 Abstract: These reactions were investigated either in an atmosphere of dry nitrogen or in a vacuum. The photoreactions were carried out in quartz tubes irradiated with UV light, and the thermal reactions, in molybdenum glass ampeules. The photoreactions were carried out in dioxane and in benzane, and the thermal reactions, in benzene with and without platinum black, on heating at 215-220°C for 75-80 hr. The photoreaction between diphenyl cadmium and dioxane resulted in the separation of metallic cadmium. The phenyl radicals form benzene, capturing hydrogen from the solvent. Irradiation and heating of benzene solutions of diphenyl cadmium resulted in decomposition and the separation of diphenyl and cadmium. Interaction with benzene was observed. There was no exchange of phonyl radicals between benzene and diphenyl cadmium except, insignificantly, in the case of thermal decomposition in benzene. The homolytic photo- and thermodecomposition of diphenyl cadmium follows a course similar to that of the decomposition of diphenyl zinc. Orig. art. has: 3 formulas. /JPRS: 38,970/ TOPIC TAGS: organocadmium compound, thermal decomposition SUB CODE: 07 / SUBM DATE: 06Jul65 / ORIG REF: 012 / OTH REF: Card 1/1 UDC: 541.144.8 + 547.35

-0.12(j)/0.17(m)SOURCE CORE: UR/0079/66/036/005/0952/0953 ACC NA: 1.7003056 AUTHOR: Vyazankin, N. S.; Gladyshev, Ye. N.; Razuvayev, G. A.; Korneva, S. P. URG: none TITLE: Synthesis and reactions of triethylgermyllithium SOURCE: Zhurnal obshchey khimii, v. 36, no. 5, 1966, 952-953 TOPIC TAGS: organogermanium compound, organolithium compound, silane ADSTRACT: Triethylgermyllithium was prepared by reaction of bis(triethylgermyl/marcury or tris(tricthylgormyl)thallium with lithium in totrahydrofuran in the absence of atmospheric oxygen in up to 94% yield. Triethylgermyllithium was now isolated from the reaction mixture; its formation was confirmed by redevious with SiNGl3 and (C6N5)2SiCl2, yielding tris(triethylgermyl)silane and bis(triethylgermyl)diphenylsilane, respectively. Triethylsilane and its ana-1000 react with triethylgermyllithium according to the reaction (C2H5)3GeL1 + (02H5)3MI -> (02H5)3GeM(C2H5)3 + LiH, where M represents Si, Ge, or Sn. Trieshylavernylturiethylgermane and triethylsilyltriethylgermane (under more rigorous conditions) were prepared by this method. Orig. art. has: 4 formulas. [3273] CUE CODE: 07 / SUBM DATE: 290ct65 / ORIG REF: 003 / OTH REF: 001 0933

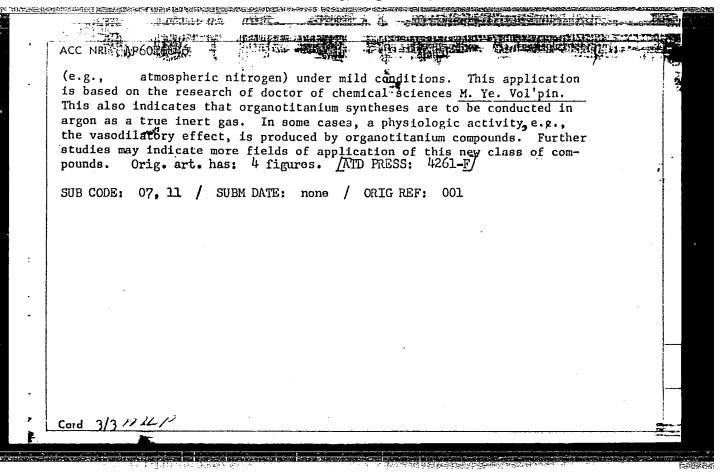
ACC NR: AP6027804 SOURCE CODE: UR/0063/66/011/002/0202/0207 AUTHOR: Razuvayev, G. A. (Professor); Terman, L. M.; Dodonov, V. A. ORG: none in the liquid phase TITLE: Reactions of alkoxy radicals SOURCE: Vsesoyuznoye khimicheskoye obshchestvo. Zhurnal, v. 11, no. 2, 1966, 202-207 TOPIC TAGS: chemical decomposition, radical polymerization, carbonic acid, organic solvent, nonmetallic organic derivative, chemical reaction, benzoyl peroxide, carbonate, phenyl compound, alkyl radical ABSTRACT: A study was made of the reactivity of simple oxygen radicals obtained by the decomposition of esters of percarbonic acid and certain other compounds in various organic solvents. The following derivatives of percarbonic acid were investigated: Dialkyl-(phenyl)-peroxydicarbonates. Peracyl-alkyl (aryl)-carbonates, bis-/1-alkyl (phenyl)-percarbonatecycloalkyl/peroxides, Percarbonates with a radical containing a three-membered ring and ter-alkyl-N-benzoylperoxycarbamates. The decomposition reactions of certain new peroxides were also investigated: Methoxymethyl-alkyl-peroxides: RO-OCH2-OCH3 --- RO + OCH2-OCH3 where R = tert-butyl; cumene. Card 1/27.024 + 532

L 00654-67 ACC NR. AP6027804 Peroxide compounds of mercury: $R'HgO=OR \longrightarrow RO \longrightarrow + R'Hg' --- RO' +(O) + R'Hg' or R'HgO + RO$ where R = cumene; $R^* = phenyl.$ benzyl. Isopropylate of iso-propylmeroury: RHgOR --- RHg + RO where R = iso-propyl. Some of the obtained peroxides appear to be very active initiators of the polymerization of vinyl monomers. Dialkylperoxydicarbonates were studies in dotail for this purpose. The constants of the rate of polymerization initiated by benzoyl peroxide and the dinitrile of azoisobutyric acid, and percarbonatees were determined. The rate of polymerization in the presence of the percarbonates is significantly higher than in the presence of other substances. The initiating activity increases with the increase in molecular weight of the parcarbonates and with branching of the radical. The introduction of the phenyl. group in the alkyl radical decreases the polymerization rate constant. Orig. art. has: 7 formulas and 3 tables. [JPRS: 36,455] SUB CODE: 07 / SUBM DATE: none / ORIG REF: 017 / OTH REF: 003 Card 2/2

ACC NR: AP6016846 (A) SOURCE CODE: UR/0026/66/000/005/0048/0053	
AUTHOR: Razuvayev. G. A. (Corresponding member AN SSSR): Latyayeva, V. II. (Candidate of chemical sciences)	
ORG: Gor'kiy State University im. N. I. Lobachevskiy (Gor'kovskiy gosudarstvennyy universitet)	
TITIE: New class of compounds. Research and discovery of organotitanium derivatives	I
TOPIC TAGS: titanium, organotitanium compound, metal industry, pi bonded organometallic compound, chemical bonding, chemical synthosis, free radical, polymerization metallic compound, enemical bonding, chemical synthosis, free radical, polymerization metallic compound, enemical bonding, chemical synthosis, free radical, polymerization metallic compounds, argon, biochemistry ABSTRACT: This popular science type article reflects a special Soviet interest in titanium and its compounds. The summary of the article even states, in titanium and its compounds. The summary of the article even states, in titanium and its compounds formed on replacing the "iron age" with that wide-spread opinion is being formed on replacing the "iron age" with the "titanium age". It is emphasized that the monument in Moscow erected to honor the conquerors of space is coated with this metal.	
It is noted in the article that the use of metallic titanium and its alloys is handicapped by time-consuming and costly refining. However, since titanium is a transition element it is of considerable interest not only in its metallic form, but also in its organometallic compounds. The UDC: 546.821	

Card 2/3

L 42145-66 ACC NR: AP6016846 alkoxy titanium derivatives which are used for the preparation of heat resistant plastics mainly due to the research made by Academician K. A. Andrianov, are mentioned first. considerable importance. Secondly, the Ziegler-Natt catalysts are of It is emphasized that the organotitanium compounds supposedly formed in the course of the reactions promoted by these catalysts, and many other-en known compounds, e.g., biscyclopentadienyltitanium belong to the class of the so-called "sandwich" compounds or metallocenes in which vacancies in the titanium atom shell are filled by $\pi\text{-electrons}$ of organic radicals. However, true covalent organotitanium compounds were considered to be unattainable until attempts were made to synthesize them at very low temperatures and in an inert gas (argon) atmosphere. Thus, a new-class of titanium compounds was obtained: mixed sandwich-covalent compounds and purely covalent compounds. A peculiarity of the latter is their intense color, which is contrary to the colorless covalent organic compounds of nontransition metals. Covalent organotitanium compounds are not stable at room temperature, are easily oxidized in the air, and are hydrolyzed by moisture. In some cases, these compounds decompose according to the free radical mechanism and can inititate the polymerization of vinyl monomers. Another potential practical application of the reactivity of covalent organic compounds of titanium or some transition metals is the fixation of molecular nitrogen



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10.503	
L 46201-56 ENT(m)/EUP(j) IJF(c) RM SOURCE CODE: UR/0020/66/169/003/0579/0582	
L 46201-56 ENT(m)/ENP(j) IJF(c) RM SOURCE CODE: UR/0020/66/169/003/05/9/0302	
ACC NR: AP6027955 SOUNCH SALE RAZUVAYEV, G. A. (Corresponding	
AUTHOR: Abakumov, G. A.; Abramova, A. A.; Razuvayev, G. A. (Corresponding member AN SSSR) ORG: Laboratory for Polymer Stabilization, Academy of Sciences, SSSR) ORG: Laboratory stabilization polymerov Akademii nauk SSSR) (Laboratory for Polymer Stabilization polymerov Akademii nauk SSSR) (Laboratoriya stabilizatsii polymerov Akademii nauk SSSR)	
member AN SSSR) Rollymer Stabilization, Academy of nauk SSSR) Member AN SSSR)	
ORG: Laboratory for Polymer Stabilization, Academy of Sciences, ORG: Laboratory for Polymer Stabilization of Akademii nauk SSSR) Gorkiy (Laboratoriya stabilizatsii polimerov Akademii nauk SSSR) 41 Gorkiy (Laboratoriya stabilizatsii polimerov Akademii nauk SSSR)	
Gorkiy (Laborator 1)	
ORG: Laboratoriya stabilizatsii polimoraliya stabilizatsii polimoraliya stabilizatsii polimoraliya stabilizatsii polimoraliya stabilizatsii polimoraliya stabilizatsii polimoraliya oxidation TITLE: Free radicals in diphenylaralkylamine oxidation E	
SOURCE: AN SSSR. Doklady, v. 169, no. 3, 1966, 579-582	
SOURCE: AN SSSR. Doklady, V. 109, More of the alkyl aryl tertiary amine, oxidation mechanism, EPR,	
tertiary amino, tree radical, tertiary amino,	
TOPIC TAGS: free radical, tertially disconnected the alkyl aryl tertiary DIPHENYLAMINE ABSTRACT: The mechanism of oxidation of the alkyl aryl tertiary (II) and diphenyl(triphenylmethyl) amine (II) and diphenyl(triphenylmethyl) amine, the amines, diphenylbenzylamine (I) and diphenyl(triphenylmethyl) amine, amines, diphenylbenzylamine (I) and diphenyl EPR spectroscopy. The amine, and all oxygen and 2) peroxides was studied by EPR spectroscopy.	١
ABSTRACT: The mechanism of Galactic and diphenyl (triphenyl moscopy. The	
amines, and 2) peroxides was espent concentrations count that	
by 1) were carried out at moom temperature. It was of cobalt	
experiments were a solution at room temperature of coolers usually in benzene solution at room temperature. However, in oxidation of I by cumene hydroperoxide in a neutral medium. However, in oxidation of I by cumene hydroperoxide in a neutral medium. However, in oxidation of I by PbO2 did not proceed in a neutral medium. However, in oxidation of I were stearage of acetic acid or trichloroacetic acid, I and II were stearage of acetic acid or trichloroacetic acid, I was readily acid, and be acid.	
usually in benzene hydroperoxide a neutral medium. Now oxidation of I by cumene hydroperoxide a neutral medium. Now oxidation of I by cumene hydroperoxide a neutral medium. Now oxidation of I by cumene hydroperoxide acid, I and II were stearate or by PbO2 did not proceed in a neutral medium. Now oxidation of I were stearate or by PbO2 did not proceed in a neutral medium. Now oxidation of I were stearate or by PbO2 did not proceed in a neutral medium. Now oxidation of I by cumene hydroperoxide and II were stearate or by PbO2 did not proceed in a neutral medium. Now oxidation of I by cumene hydroperoxide and in a neutral medium. Now oxidation of I by cumene hydroperoxide and II were stearate or by PbO2 did not proceed in a neutral medium. Now oxidation of I by cumene hydroperoxide acid, I and II were stearate or by PbO2 did not proceed in a neutral medium. Now oxidation of I by cumene hydroperoxide. Likewise, I was readil the presence of acetic acid or trichloroacetic acid, I and II were stearate or by PbO2 did not proceed in a neutral medium.	V
stearage bikewise, and b	У
the presence of acetic acetic	
stearate or by Flor acid or trichloroacetic Likewise, I was readily the presence of acetic acid or benzoyl peroxide. Likewise, I was readily the presence of acetic acid, and be readily oxidized by PbO ₂ or benzoyl peroxide in the presence of acetic acid, and be readily oxidized by cumene hydroperoxide in the presence of trichloro-or trifluoro-acetic oxidized by cumene hydroperoxide of trichloro-or trifluoro-acetic oxidized by cumene hydroperoxide in the presence of trichloro-or trifluoro-acetic oxidized by cumene hydroperoxide in the presence of trichloro-or trifluoro-acetic oxidized by cumene hydroperoxide in the presence of trichloro-or trifluoro-acetic oxidized by cumene hydroperoxide in the presence of acetic acid, and be readily oxidized by cumene hydroperoxide in the presence of acetic acid, and be readily oxidized by cumene hydroperoxide in the presence of acetic acid, and be readily oxidized by cumene hydroperoxide in the presence of acetic acid, and be readily oxidized by cumene hydroperoxide in the presence of acetic acid, and be readily oxidized by cumene hydroperoxide in the presence of trichloro-or trifluoro-acetic oxidized by cumene hydroperoxide in the presence of trichloro-or trifluoro-acetic oxidized by cumene hydroperoxide in the presence of trichloro-or trifluoro-acetic oxidized by cumene hydroperoxide in the presence of trichloro-or trifluoro-acetic oxidized by cumene hydroperoxide in the presence of trichloro-or trifluoro-acetic oxidized by cumene hydroperoxide in the presence of trichloro-or trifluoro-acetic oxidized by cumene hydroperoxide in the presence of trichloro-or trifluoro-or trifluoro-or tripluoro-or tripluor	
acid. Based on EPR data, it was property acid. Based on EPR data. Based on EPR data	
Card 1/3	

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L 46201-66	
the same of the sa	
PbO2 in the presence of acetic acid two competing processes	
PbO ₃ (C. H.A.N. + C. H. CHO,	
$(C_{6}H_{6})_{2}N - CH_{2}C_{6}H_{6} \longrightarrow (C_{6}H_{5})_{2}N - (1)$ $C_{6}H_{5})_{2}N \cdot (C_{6}H_{5})_{2}N - N(C_{6}H_{5})_{2} \stackrel{PbO_{3}}{\longrightarrow} (C_{6}H_{6})_{2}N \cdot (C_{6}H_{5})_{2} (2)$	
At low concentrations of the amine, reaction (1) prevails, because the concentration of the oxygen dissolved in the benzene may be concentration of the oxygen dissolved in the benzene may be concentration. At high concentration commensurate with the $(C_6H_5)_2N$ · concentration. At high concentration of the amine, reaction (2) prevails. Experiments involving II or oxion of the amine, reaction (2) prevails. Experiments involving II or oxion the amine, reaction (2) prevails. Experiments involving II or oxion the amine, reaction (2) prevails. Experiments involving II or oxion the idation with oxygen confirmed this mechanism. On oxidation of I and idation with oxygen confirmed this mechanism. On oxidation of I and idation with oxygen confirmed this mechanism. On oxidation of I and idation with oxygen confirmed this mechanism. On oxidation of I and idation with oxygen confirmed this mechanism. On oxidation of I and idation with oxygen confirmed this mechanism. On oxidation of I and idation with oxygen confirmed this mechanism.	-
or of the complex (C ₆ H ₅) ₃ NH···NX (C ₆ H ₅) ₃	
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CIA-RDP86-00513R001444 "APPROVED FOR RELEASE: Tuesday, August 01, 2000

L 56201-66 ACC NR: AP6027955

(where X may be $-N(C_6H_5)_2$ or even $-CH_2C_6H_5$) may be assumed; the primary radical in this case is probably not $(C_6H_5)_2N_1$ but rather $(C_6H_5)_2N_5$. On oxidation of I and II by cumene hydroperoxide in the presence of cobalt stearate and acetic acid, $(C6H_5)_2\cdot NO^-$ was readily formed. Thus, in all cases rupture of the $(C_6H_5)_2N-CA2n$ bond occurred. The effect of the acid was attributed to its weakening of the N-C bond due to formation of an ionic pair:

 $(C_0\Pi_6)_2\operatorname{N} + \operatorname{CH}_2C_0\Pi_5 + \operatorname{AH} \rightleftarrows [(C_0\Pi_6)_L \overset{\circ}{\operatorname{NH}} = \overset{\circ}{\operatorname{CH}}_2 \to C_0\Pi_6]\operatorname{A}^+.$

This was confirmed by the experimentally established fact of the dissociation of II in an acid medium in the absence of air:

 $(C_0 II_6)_2 N - C (C_0 II_6)_9 + CCl_9 COOH \rightleftarrows [(C_0 II_6)_2 \overset{+}{N} II - C (C_0 II_5)_5] CCl_8 COO [(C_6H_6)_2\mathring{N}H-C(C_6H_6)_3!CCl_8COO^- \rightleftarrows [(C_6H_6)_3C]^+CCl_3COO^- + (C_6H_6)_3NH.$

Orig. art. has: 2 figures.

[SM]

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SUBM DATE: 08Jan66/ ORIG REF: 005/ OTH REF:

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SUB CODE:

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001444

EWP(j)/EWT(m) SUURCE CODE: UR/0062/66/000/001/0181/0182 L 36991-66 ACC NR: AP6008513 AUTHOR: Muslin, D. V.; Vasileyskaya, N. S.; Khidekel', M. L.; ORG: Laboratory of Stabilization of Polymers, Academy of Sciences, SSSR (Laboratoriya stabilizatsii polimerov Akademii nauk SSSR); Institute of Chemical Physics, Academy of Sciences, SSSR (Institut khimicheskoy fiziki Akademii nauk TITLE: 2,4-di-tert-butyl-6-trimethylsilylphenol and the corresponding phenoxyl SSSR) SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 1, 1966, 181-182 TOPIC TAGS: phenol, chemical synthesis, silane ABSTRACT: This article describes the synthesis of a steric-hindered phenol (and corresponding phenoxyl) containing a trimethylsilyl group in the orthoposition. 2,4-di-tert.-butyl-6-trimethylsilylphenol is obtained by hydrolysis of 2,4-di-tert.-butyl-6-trimethylsilyl phenoxytrimethylsilane synthesized by the Wurtz-Fittig reaction from 2,4-di-tert.-butyl-6-bromophenoxytrimethylsilane. Upon oxidation of the new steric-hindered compound with an alkalide solution K₃[Fe(CN)₆], or P_bO₂, stable 2,4-di-tert.-butyl-6-trimethylsilylphenoxyl is obtained. The electron paramagnetic resonance spectrum of this compound represents a triplet caused by splitting at the meta-protons of the benzene ring. SUB CODE: 07/ SUBM DATE: 28May65/ ORIG REF: 001/ OTH REF: 002 UDG: 541+541.51+538.113+546.287 Cord 1/1 /

ENT(m)/ENP(j) L 31892-66 AP6012525 ACC NR:

SOURCE CODE: UR/0062/66/000/003/0437/0443

AUTHOR: Yegorochkin, A. N.; Khidekel', M. L.; Razuvayev, G. A.

ORG: Scientific Research Institute of Chemistry, Gor'kiy State University (Nauchnoissledovatel'skiy institut khimii Gor'kovskogo gossudarstvennogo universiteta); Institute of Chemical Physics, Academy of Sciences SSSR (Institut khimicheskoy fiziki Akademii nauk SSSR)

TITLE: Regularities in the proton magnetic resonance spectra of the elemental organic compounds of the IV group

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 3, 1966, 437-443

TOPIC TAGS: silicon compound, germanium compound, tin compound, NMR, magnetic anisotropy

ABSTRACT: Characteristics of chemical proton shifts in silicon, germanium and tin organic compounds and the relationship between induction Taft constants of aliphatic substituents were compared with similar characteristics in related carbon compounds. In the study of carbon-containing compounds, it was discovered that in $\tau = /(\Sigma \sigma^{\bullet})$, the Taft constant σ^k is not adequate for describing chemical shifts of CH $_3$ -protons

Card 1/2

UDC: 543.422 + 546.3 + 541.67

L 31892-66

ACC NR: AP6012525

in $(CH_3)_{4-n}CX_n$ type compounds, where X is halogen. Chemical shifts in going from Cl to Br to I derivatives are associated with the diamagnetic anisotropy contribution of the C-X bond. Chemical shifts in $(CH_3)_{4-n}C(C_6H_5)_n$ are apparently associated with magnetic shifts produced by ring currents due to circulation of ¶ electrons in the benzene ring. Thus, the main contributions to chemical proton shifts in these compounds are due to the inductive effect and magnetic anisotropy of substituted R_1 groups. Comparisons were made of proton magnetic spectra of $(CH_3)_{4-n}M(R_i)_n$ type compounds where M represents Si, Ge and Sn with spectra of $(CH_3)_{4-n}C(R_i)_n$ compounds. It was shown that for compounds of the $(CH_3)_{4-n}M(R_i)_n$, type, where M = Si, Ge, chemical shifts of protons of the methyl group are determined not only by the inductive effect and magnetic anisotropy of substituents, but in the case of $R_1 = -0CH_3$, $-0C_2H_5$, $-CH=CH_2$ also the effect of $d_{\pi}-p_{\pi}$ conjugation. In correlating chemical shifts of protons of the methyl group with $\sigma_{S_1}^n$ constants, obtained from the reaction series containing silicon, the effect ascribed to $d_{\pi}-p_{\pi}$ conjugation is still apparent. Orig. art. has: 3 tables and 4 figures.

SUB CODE: 07/ SUBM DATE: 230ct63/ ORIG REF: 004/ OTH REF: 010

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Card 2/2

L 31880-66 EWT(m)/ETC(f)/EWP(j)/T DS/WW/RM

ACC NR: AP6012534

SOURCE CODE: UR/0

UR/0062/66/000/003/0562/0564

AUTHOR: Vyazankin, N. S.; Razuvayev, G. A.; Bychkov, V. T.; Zvezdin, V. L.

33

ORG: Laboratory for Stabilization of Polymers, Academy of Sciences SSSR (Laboratoriya stabilizatsii polimerov Akademii nauk SSSR)

B

TITLE: Reactions of bis(triethylgermyl) cadmium

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 3, 1966, 562-564

TOPIC TAGS: organic synthesis, cadmium compound

ABSTRACT: Two types of reactions are known for the bimetal organic compound, containing Ge-Me bond with monobromo derivatives

 $(R_3Ge)n M + n R' Br - \begin{bmatrix} \rightarrow n R_3GeBr + R'_n M \\ \rightarrow n R_3GeR' + MBr_n \end{bmatrix}$

(1) (2)

Equation (1) is followed in photoreaction of bis(triethylgermyl)-mercury and tris (triethylgermyl)-antimony under the action of heat. Reaction (2) is characteristic for triethylgermyl potassium, triphenylgermyl lithium and related compounds.

Card 1/2

UDC: 547.1'3 + 541.14

L 31880-66

ACC NR: AP6012534

Bis(triethylgermyl)-cadmium reacts in the same manner with alkyl bromide. Continuing the work in this field the authors found that bromobenzene (in contrast to alkylbromides) does not react with bis(triethylgermyl)-cadmium even where the latter decomposes into hexaethyldigermane and metallic cadmium. On the contrary, the photochemical reaction (1) proceeds very easily under ultraviolet light with bromobenzene, and produces triethylbromogermane, triethylphenylgermane, diphenyl cadmium and cadmium bromide. It was found that bis(triethylgermyl)-cadmium and bis(triethylgermyl)-mercury react with Li(Na) in tetrahydrofurane with the formation of triethylgermyl lithium (sodium) derivative.

SUB CODE: 07/ SUBM DATE: 23Jul65/ ORIG REF: 004/ OTH REF: 007

Card 2/2

REZUMAYEN, G.A., ETILIS, V.S.; MOROZOWA, Ye.P.

Isomerization of some substituted claffin oxides induced by hydroxyl redicals. Zhur. org. knim. 1 nc.9:1567-1570 S '66.

(MIRA 18:12)

1. Submitted July 15, 1964.

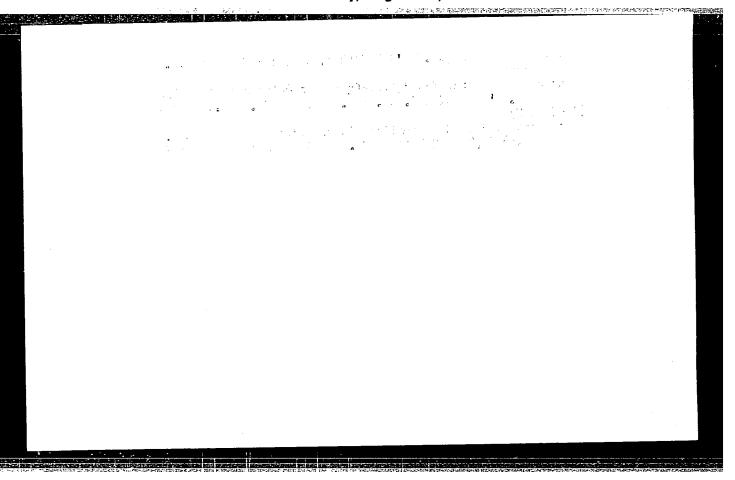
RAZUVAYOV, G.A.; MT 'S, V.C.; TR WHEN, Malla

Universities of some olefin oxides by terfabutyl hypochlorite. Char. org. khim. 1 no. 12:2128-2131 D 65 (MIRA 19:1)

1. Submitted December 12, 1964.

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L 16085-66 EPF(n)-2/EWP(j)/EWT(m)/EWP(t) IJP(c) RM/WW/JD/JG	
CC NR: AP6005934 SOURCE CODE: UR/0079/66/036/001/0160/01	.60
UTHOR: Vyazankin, N. S.; Mitrofanova, Ye. V.; Kruglaya, O. A.; Razuvayev, G.	A.
RG: Laboratory of Polymer Stabilization, Academy of Sciences SSSR, Gor'kiy	- 4
Laboratoriya stabilizatsii polimerov Akademii nauk SSSR)	27
ITLE: Tris(triethylgermyl)thallium	\mathcal{B}
OURCE: Zhurnal obshchey khimii, v. /36, no. 1, 1966, 160	
OPIC TAGS: organogermanium compound, thallium compound, organomercury compour	ıd
BSTRACT: Heating of triethylgermane with triethylthallium for 2 hr at 100° proceed ethane and tris(triethylgermyl)thallium (I) in high yields. Compound (I) composes at 170° into thallium and hexaethyldigermane with quantitative yields eaction with excess dibromoethane is exothermic and ends after 5-7 min at room	Its
emperature:	
I) reacts with benzoyl peroxide in 2-3 min at 20° to form triethylbenzoyloxyge	rmane —
UDC: 547.13 + 546.683	
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VYAMAGRIR, S.C.; KREGLAYA, O.A.; RAZUVAYEV, G.A.; SEMCHIKOVA, G.S.

Trism(triethylsilyl)-antimony and its analogs. Dokl. AN SUSR
[bo no.1:99-102 Ja '66. (Mira 19:1)]

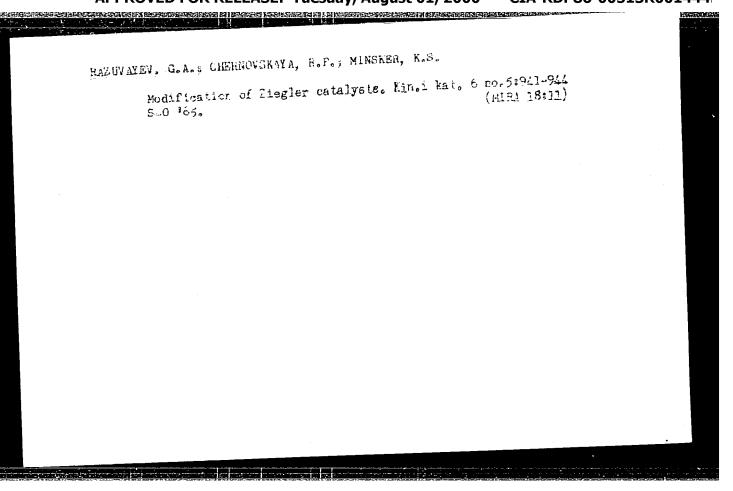
1. Latoratoriya stabilizatsii polimerov AN SSSR, Gor'kiy.

2. Chlen-korrespondent AN SSCR (for Razuvayev). Submitted April 19, 1965.

RAZUVAYEV, G.A.; STEPOVIK, L.P.; PERVEYEV, F. Ya.; DEMIDOVA, V.M.; ALANIYA, V.P.; SOKOLOV, N.A.; KHARCHENKO, V.G.; KRUPINA, T.I.; KLIMENKO, S.K.; RASSUDOVA, A.A.; GORELIK, M.V.

Letters to the editors. Zhur. org. khim. 1 no. 12:2244-2246 D '65 (MIRA 19:1)

1. Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom gosudarstvennom universitete (for Razuvayev, Stepovik). 2. Lenningradskiy gosudarstvennyy universitet (for Perveyev, Demidova).
3. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni Gubkina (for Alaniya, Sokolov). 4. Sarstovskiy politekhnicheskiy institut (for Kharchenko, Krupina, Klimenko, Rassudova).



RAZUVAYEV, G.A., EARTASHOVA, N.A., BOGUSLAVINAYA, L.C. : eroxide reactions entalyzed by Lewis acids. Surt 1. Interaction

of dicyclohexyl peroxydicarbonate with aromatic compounds. Thur. org. khim. 1 no.11:1927-1933 N '65. (MIRA LETE)

1. Submitted July 5, 1964.

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1	AUTHORS: Artemov. A. N.; Yermolayev, V. I.; Nazarova, R. G.; Petukhov, G. G.; AUTHORS: Artemov. A. N.; Yermolayev, V. I.; Solov yeva, N. A.; Sorokin, Yu. A.;	
	AUTHORS: Artemov. A. N.; Yermolayev, Calculyova, N. A.; Sorokin, Yu. A.;	
: ;	AUTHORS: Artemov. A. N.; Yermolayev, V. I.; Nazarova, R. G.; Petukhov, V. I.; Nazarova, R. G.; Petukhov, V. I.; Nazarova, R. G.; Petukhov, V. S.; Nazarova, R. G.; Petukhov, V.	
	Tyutyayev, I. N.	
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1	15,500000000000000000000000000000000000	
	ORG: none Class 21,	
	TITLE: Method for manufacturing film type electrical resistors. Class 21,	
	3.71.407	
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	No. 174097 No. 174097 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 18, 1965, 47	
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14.	the thermal resistance coefficient, dibenzylchromium/(C6H6/2 to 1:(2.5-2.7), and the dicyclopentadienylcarbonylnickel (C5H5Ni(CØ))2 in the ratio 1:(2.5-2.7), and the	
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L 4943-66			
ACC NR: AP5025697		0	
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SUB CODE: EC/ SUBM DATE	: 12Mar64		
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L 8496-66 EWT(m)/EWP(j)/T RM

ACC NR: AP5026479

SOURCE_CODE: UR/0195/65/006/005/0941/0944

AUTHOR: Razuvayev, G.A.; Chernovskaya, R.P.; Minsker, K.S.

ORG: none

TITLE: On Modifying Ziegler catalysts

SOURCE: Kinetika i kataliz, v. 6, no. 5, 1965, 941-944

TOPIC TAGS: heterogeneous catalysis, titanium compound, organoaluminum compound, propylene, catalytic polymerization $\gamma_{,,} \psi_{,} \zeta \zeta$

ABSTRACT: During the polymerization of propylene, the authors noted a modifying effect of aromatic compounds on the catalyst $\sqrt{-\text{TiCl}_3(\text{Si})} + (\text{C}_2\text{H}_5)_3\text{Al}$ at 45C: small amounts of benzene, naphthalene, toluene, and tetrahydronaphthalene slowed down the polymerization, and large amounts accelerated it. In large concentrations, ethylbenzene and isopropylbenzene also accelerated the process, but chlorobenzene slowed it down. The properties of the polypropylene obtained (average degree of polymerization and content of fractions soluble in n-heptane) also depended on the concentration of the aromatic impurity added. Nonaromatic compounds (triethylamine) also were found to have a modifying effect. The

Card 1/2

UDC 541.128'64

L 8496-66

ACC NR: AP5026479

authors note the common nature of the modifying effect of both nucleophilic and electrophilic additive on Ziegler-Natta catalysts; this is accounted for by the concepts of heterogeneous catalysis. It is concluded that in the system ~-TiCl3 + (C2H5)3Al + aromatic compound (+ propylene), associates are formed which are very labile and promote a qualitative change of the heterogeneous surface of the catalytic system and a change in its activity. The equilibrium state of this interaction depends both on the chemical nature and concentration of the reagents. Orig. art. has: 3 figures.

SUB CODE: 07 / SUBM DATE: 30Mar64 / ORIGREF: 094 / OTH REF: 002

131K

RAZUVAYEV, G.A.; GRAYEVSKIY, A.I.; MINSKER, K.S.; SANGALOV, Yu.A.; MALYSHEVA, K.M.

Some regularities in the polymerization of vinyl chloride in the presence of Ziegler-type catalysts. Vysokom. soed. 7 no.8:1364-1367 Ag '65.

1. Nauchno-issledovatel'skiy institut khlororganicheskikh produktov i akrilatov.

	L 5061-66 EWT(m)/EPF(c)/EWP(j)/T/EWA(c) RM
-	ACCESSION NR. AD5025511 TIP/0002/55/000/000/1665/1667
	July 55 542.91+547.17 36
i	AUTHOR: Vyazankin, N. S.; Razuvayev, G. A; Bychkov, V. T.
	TITLE: New reactions of bis(triethylgermyl)cadmium 1,44,55
	SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 9, 1965, 1665-1667
	TOPIC TAGS: organogermanium compound, organocadmium compound, organomercury compound, organosilicon compound
	ABSTRACT: Bis(triethylgermyl)cadmium (I) was synthesized by reacting triethylgermane with diethylcadmium. Reaction of (I) with acetic acid gave triethylacetoxygermane; with n-propyl alcohol, triethylgermane and triethylpropoxygermane were produced; with triethylpropoxygermane were produced;
	tin hydride, triethylgermane and hexaethyldistannane were obtained. Reaction of (I) with triethyltin gave triethylgermane; with mercuric chloride, triethylchlorogermane; and with
	mercury, bis(triethylgermyl)mercury. From bis(triethylsilyl)cadmium and mercury, bis (triethylsilyl)mercury was obtained, and the reaction of diethylcadmium with mercury
	yielded diethylmercury.
	Card 1/2
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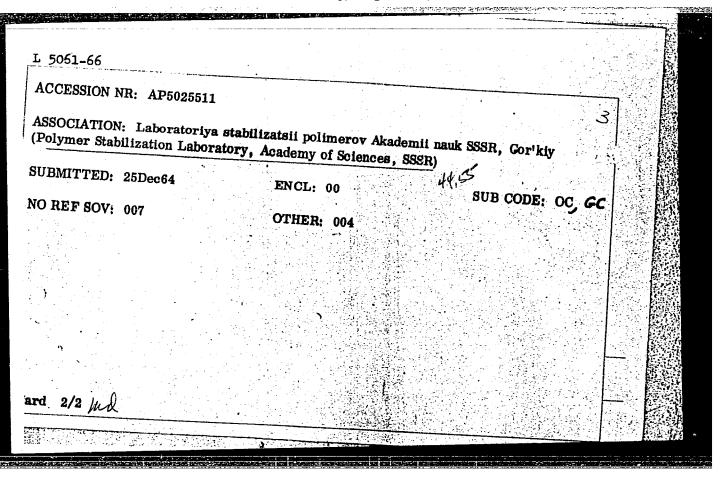
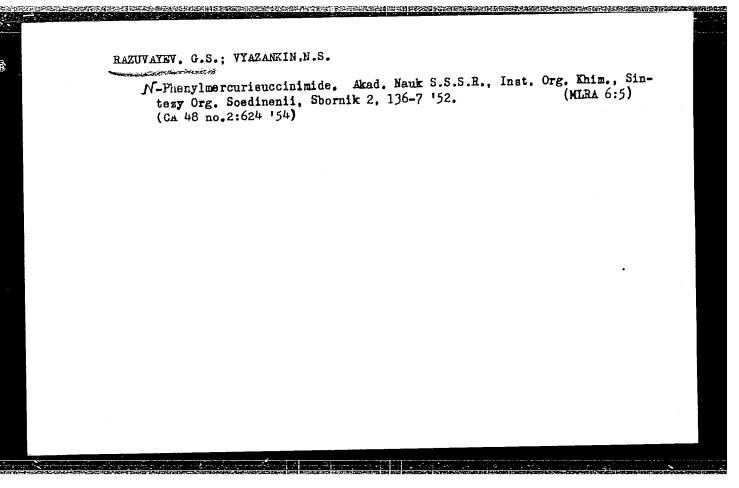


Photo-decomposition of pentachloroethane. Zhur.ob.khim. 24 no.10:
1771-1775 0 '54.

1. Gor'kovskiy Gosudarstvennyy universitet.
(Ethane) (Photochemistry)



RAZUVAEV, I.

Bimolecular alkylldenearylamines. I. Structure of ethylideneaniline. L. Razuvacv. Lalvijus PSR Zindinu Akad. Vēslis 1951, 131-6; cf.ºElbier; Ann. 318, 58(1901).— The bimol. ethylideneaniline, m. 120°, is trans-2-methyl-tanilino-1,2,3,4-tetrahydroquinoline (I), formed by cyclization of initially formed PhNHCHMeCHCH:NPh. Addn. of 11,6 ml. AcH to 18.0 g. PhNH, in 300 ml. EtoH and 200 ml. H₂O gave after 2 days 93% I, m. 126° (from H₂O), 2.7 g. of which with 11 g. KMnO, in the presence of MgSO, gave quinaldine. I heated with H₂O 6 hrs. remains unchanged. Heated to 300° briefly it yields quinaldine and PhNH₁. If the reaction mixt. used in the prepn. of I is evapd. after but 1 hr. of reaction and the residue heated with Ac₂O there is formed quinaldine. Refluxing 3 g. I with 10 ml. PhNO₂7 hrs. yields quinaldine. Letting I stand 24 hrs. with excess Ac₁O gave the di-Ac deriv., m. 187-8°; this (-(3.4 g.) treated with 1.7 g. Br in CHCl, gave CaHiO₁N₁B₁, m. 153°, which is a direct contradiction to the probable behavior on bromination of the formulation of I given by Eibner (loc. cit.), which should yield a dibromide. II. Structure of the products of bromination of 1 given by Eibner (loc. cit.), which should yield a dibromide. II. Structure of the products of bromination of 1-benzoyl-2-methyl-4-anilino-1,2,3,4-tetrahydroquinoline and not trans-1,3-dianilino-1,4,3,4-tetrahydroquinoline and not trans-1,3-dianilino-1,4,3,4-tetrahydroquinoline and not trans-1,3-dianilino-1,4,1,4-dianilino-1,2,3,4-tetrahydroquinoline and not trans-1,3-dianilino-1,4-NH₁ (isolated as the Ac deriv.). I (6.5 g.) with 1 g. Br gave 3 g. colorless solid, m. 160-2° (after exposure to air), which is a HBr sall, since with NaHCO, it liberates CO, from the latter, yielding a base C₂H₁00N₂B₇, m. 211-12°. This refluxed 5 hrs. with 1:1 H₂SO, gave quinaldine and PB-C₂H₁NH₁ (log deriv., m. 180-6°; hydrolysis of this with H₂SO, and treatment with BzCl gave quinaldine and 2.4-BrC₂H₁NH₂ (Bz deriv., m. 183-4°). III. Ther

nitroso deriv. which, heated with Sa-HCl, yielded some tetrahydroquinaldine (HCl salt, m. 188°). Adding 20 g. AcH to 18.8 g. 2-aminopyridine and letting stand 12 hrs. gave 17 g. McH(NHC,H,N), m. 113-16° (from C,H). This gently refuxed 15 min. gave 5.5 g. 2-aminopyridine as a distillate, some McCH: CHCHO, and 4 g. brown powder, which did not melt sharply and contained 14.5% N; this yielded McCH: CHCHO with H₁SO. Apparently this was a condensation product of 2-(ethylideneamino)pyridine, formed by cleavage of the original base. Irans-2-Methyl-lanillno-1,2,3,4-tetrahydroquinoline (I) (cf. 2nd preceding abstr.) left behind a mother liquor, which, treated with 18.0 g. PhNH₃ and 5.6 ml. AcH and allowed to stand 3 days, yielded 0 g. colorless solid, m. 85-6°, identified as dis-I, identical with Eibner's base [Ann. 318, 58(1901)]. Thermal decompn. of either cis- or trans-I gave quinaldine, PhNH₃ and H.

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的一种,我们就是这种的人,我们就是这种的人,我们就是我们的人,我们就是我们的,我们就是我们的一个,我们就会是我们的一个,我们就是我们的人,我们就是我们的人,我们 第一个人,我们就是我们是我们是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们就是我们就会是我们

RAZUVAYEV, M.I.

Processing of wine making secondary raw materials in factories of essential oils. Khar.prom. no.3:77 JI-S 162. (MIRA 15:8)

Factors affecting the diffusion of pectin substances into the solution in the extraction of grape residue. Trudy VNIIVIV "Magarach" 13:173-178 '64. (MIRA 17:12)

RAZEVATEV, N.1.; OGORODNIK, S.T.; NECHAYEVA, P.F.

Studying the conditions and methods of the production of calcium tartrate from yeast residues. Trudy VNIIVIV "Magarach" 13: (MIRA 17:12)

POPOV, K.S., kand. tekhn. nauk; GAYVORONSKAYA, Z.I.; UMANETS, V.P.;
NILOV, V.I.; VALUYKO, G.G.; OKHREMENKO, N.S.; ZHDANOVICH,
G.A.; DATUNASHVILI, Ye.N.; SERHINOVA, N.I.; MARCHENKO, G.S.;
KURAKSINA, N.K.; TYURIN, S.T.; TYURINA, L.V.; KRIMCHAR, M.S.;
RAZUVAYEV, N.I.; OGORODNIK, S.T.; MIKHAYLOV, S. M.;
ZHILYAKOVA, O., red.; GLIKMAN, N., red.; FISENKO, A., tekhn.

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